

Title (en)  
HIGH-STRENGTH THIN SHEATH FIBERS

Title (de)  
DÜNNMANTELFASERN HOHER FESTIGKEIT

Title (fr)  
FIBRES HAUTEMENT RESISTANTES A GAINE MINCE

Publication  
**EP 1472393 A4 20050824 (EN)**

Application  
**EP 01952966 A 20010703**

Priority  
US 0141241 W 20010703

Abstract (en)  
[origin: WO03004737A1] A fiber comprises a core, a sheath, and an additive that determines a desired physico-chemical parameter of the fiber, wherein the fiber is spun such that without increasing the concentration of the additive the desired parameter increases when the volume of the sheath decreases. Especially preferred additives include chromophores (e.g., a UV absorbing agent), flame-retardants, and adhesion promoters.

IPC 1-7  
**D01F 6/00**; **D01F 8/00**; **C08K 5/34**; **D01F 1/07**; **D01F 1/10**; **D01F 8/04**; **D01F 8/14**

IPC 8 full level  
**D01F 1/07** (2006.01); **D01F 1/10** (2006.01); **D01F 8/04** (2006.01); **D01F 8/14** (2006.01)

CPC (source: EP KR)  
**D01F 1/07** (2013.01 - EP); **D01F 1/10** (2013.01 - EP); **D01F 8/00** (2013.01 - KR); **D01F 8/04** (2013.01 - EP); **D01F 8/14** (2013.01 - EP)

Citation (search report)

- [X] WO 9941438 A1 19990819 - DU PONT [US]
- [A] EP 0089113 A2 19830921 - CHISSO CORP [JP]
- [A] DATABASE CA [online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; EGUCHI, HISASHIRO ET AL: "Light-resistant polyester core-sheath conjugate fibers", XP002334020, retrieved from STN Database accession no. 1994:220295 & JP 5287614 A2
- See references of WO 03004737A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
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DOCDB simple family (application)  
**US 0141241 W 20010703**; CN 01823401 A 20010703; EP 01952966 A 20010703; JP 2003510489 A 20010703; KR 20037017316 A 20031231